



3E Company *America's leader in hazardous materials compliance services*

Phone (800) 451-8346

Manufacturer Memorandum Sheet

Date 29-Jul-97

TO: MSDS - Requester
FROM: KS - 3E Company
RE: The MSDS you have requested

Manufacturer: Pool Master Inc.

Product Name: Bromine/Chlorine Test Kit

Mfg Contact Name: Brenda

Mfg Phone #: (916) 567-9800

Per the manufacturer the MSDS(s) listed below cover the above product.

Poolmaster Solution #1/Poolmaster OTO

Poolmaster Phenol Red/Poolmaster Solution #2

**POOLMASTER, INC.****MAILING ADDRESS**

P.O. BOX 340308, SACRAMENTO, CA 95834-0308

PHONE & FAX NUMBERS:

Local (916) 567-9800

Toll Free: (800) 854-1776

FAX: 916-567-9880

New Office & Warehouse:

770 W. DEL PASO ROAD

SACRAMENTO,

CA 95834-1117

MATERIAL SAFETY DATA SHEET

Information on this form is furnished solely for the purposes of compliance with the Occupational Safety and Health Act of 1970 and shall not be used for any other purpose. Use or dissemination of all or any part of this information for any other purpose may result in a violation of law or constitute grounds for legal action.

SECTION I**MANUFACTURER'S NAME**

POOLMASTER, INC.

EMERGENCY TELEPHONE NO.

916-567-9800

TRADE NAME AND SYNONYMS

Poolmaster Solution #1

Poolmaster OTO (Orthotolidne)

CHEMICAL NAME AND SYNONYMS

O-Tolidine Dihydrochloride (3, 3'-Dimethyl-(1,1'-Biphenyl)-4,4'-diamine Dihydrochloride

CHEMICAL FAMILY

Organic indicator

FORMULA $(-C_6H_3-4-NH_2-3-CH_3)_2 \cdot 2HCl$ **SECTION II - HAZARDOUS INGREDIENTS**

COMPONENT	%	HAZARD DATA
O-Tolidine Dihydrochloride	≤0.2	DANGER-Suspected carcinogen
Hydrochloric Acid		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	212	Specific Gravity (H ₂ O=1)	1.0
VAPOR PRESSURE (mm Hg.)	NA		
VAPOR DENSITY (AIR=1)	NA		
SOLUBILITY IN WATER	Complete		

APPEARANCE AND ODOR

Clear, odorless, water-like solution.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NA - Aqueous solution	FLAMMABLE LIMITS	NA
EXTINGUISHING MEDIA	NA		

SPECIAL FIRE FIGHTING PROCEDURES

NA

UNUSUAL FIRE AND EXPLOSION HAZARDS

None

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not established
TOXICITY	Suspected carcinogen. Toxicity levels not established.

SECTION V - HEALTH HAZARD DATA (cont.)**EFFECTS OF OVER EXPOSURE**

GENERAL - Suspected carcinogen. INHALATION: May be harmful if inhaled.
EYES: Solution may cause eye burns. SKIN: Harmful if absorbed through skin.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: Give water. Do not induce vomiting. Seek medical attention.
EYES: Immediately flush with plenty of water and get medical attention.
SKIN: Immediately flush with plenty of water. Remove contaminated clothing.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Strong oxidizers
	STABLE	XX	

INCOMPATIBILITY

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

N/A

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID N/A
	WILL NOT OCCUR	XX	

NFPA RATINGS (Scale 0-4): HEALTH=3 FIRE=0 REACTIVITY=0

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled.

Wearing suitable protective clothing, collect spilled material in sealed container.
Wash spill area with soap and water.

WASTE DISPOSAL METHOD

Wearing suitable protective clothing, collect spill with absorbent, flammable material and incinerate. State and local laws take precedence.

SECTION VIII - SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION**

N/A

VENTILATION	LOCAL EXHAUST If necessary	SPECIAL
	MECHANICAL	OTHER

PROTECTIVE GLOVES YES	EYE PROTECTION Safety glasses
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OTHER PROTECTIVE EQUIPMENT
As necessary to prevent skin contact.

SECTION IX - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep bottles tightly sealed when not in use. Do not store in direct sunlight.
Protect from freezing and extreme heat.

OTHER PRECAUTIONS

None

The information supplied above is presented in good faith and has been derived from sources believed to be reliable. However, no warranty, express or implied is extended regarding its accuracy or the results to be obtained from its use. Since conditions of use are beyond our control all risks are assumed by the user.

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SECTION I

MANUFACTURER'S NAME POOLMASTER, INC.	EMERGENCY TELEPHONE NO. 916-567-9800
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TRADE NAME AND SYNONYMS

POOLMASTER PHENOL RED
POOLMASTER SOLUTION #2

CHEMICAL NAME AND SYNONYMS

Phenol Red (Phenolsulphonthalein)

CHEMICAL FAMILY

Organic pH Indicator

FORMULA

$C_6H_4C(C_6H_4-4-OH):C_6H_4-4-O-SO_4$

SECTION II - HAZARDOUS INGREDIENTS

COMPONENT	%	HAZARD DATA
Phenolsulphonthalein		See Health Hazard (Toxicity) data below.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	212	Specific Gravity (H ₂ O=1)	-1.0
VAPOR PRESSURE (mm Hg.)	17		
VAPOR DENSITY (AIR=1)	0.6		
SOLUBILITY IN WATER	Complete		

APPEARANCE AND ODOR

Red, water-like solution.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) NA-Aqueous solution.	FLAMMABLE LIMITS NA
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EXTINGUISHING MEDIA

Use extinguishing media for primary cause of fire.

SPECIAL FIRE FIGHTING PROCEDURES

NA

UNUSUAL FIRE AND EXPLOSION HAZARDS

NA

SECTION V - HEALTH HAZARD DATA**THRESHOLD LIMIT VALUE****TOXICITY**

Mutagenic with Ames Test with and without activation.

SECTION V - HEALTH HAZARD DATA (cont.)**EFFECTS OF OVER EXPOSURE**

Not established other than mutagenic activity.

EMERGENCY AND FIRST AID PROCEDURES

Ingestion: Give plenty of water to dilute. Consult a physician immediately. Eyes: Flush with water for 15 minutes. Get medical attention if symptoms persist. Skin: Wash with soap and water.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID	NA
	STABLE	X		

INCOMPATIBILITY

None

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	None
	WILL NOT OCCUR	X		

NFPA RATINGS (Scale 0-4): HEALTH=0 FIRE=0 REACTIVITY=0

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Absorb material with suitable absorbent.

WASTE DISPOSAL METHOD

Dispose of contaminated material in accordance with current laws and ordinances.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION Not required				
VENTILATION	LOCAL EXHAUST	Not required	SPECIAL	NA
	MECHANICAL	Not required	OTHER	NA
PROTECTIVE GLOVES		Not required	EYE PROTECTION	Not required
OTHER PROTECTIVE EQUIPMENT None				

SECTION IX - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Ensure that bottle cap is tightly sealed after using. Protect from extreme heat and freezing.

OTHER PRECAUTIONS

None

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